



KS-8410-01

IL-0043-14

## ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: 11-18-75

TO: J. Rein

FROM: Rene Van Someren

SUBJECT: COOK CO./L.P.C.  
Chicago Heights/Triem  
03104505

## TECHNOLOGICAL MEMORANDUM

EPA Region 5 Records Ctr.



360908

General Background

This site has had a poor operational history since as early as 1972. Violations continued thru 1975 and include open dumping, insufficient daily, intermediate and final cover, improper spreading and compacting and odors.

The owner of the site - Mr. Leonard Triem, has repeatedly indicated that the site does not look as bad as the reports made out by the inspector indicate. However, on-site inspections by various representatives of the Agency, including C.E. Clark have only served to verify the poor operational condition of the site. Mr. Triem, however, continues to consider his site as being in relatively good condition.

It would appear that the success of the upcoming Compliance Conference will be determined by the attitude taken by Mr. Triem during the conference.

TECHNOLOGICAL CONSIDERATIONS

Due to the extensive areas requiring cover at this site, the landfill has been divided into four sections. These sections will be referred to as (1) the Northeast quarter, which is approximately 300 yds. long and 207 yds. wide. (2) the Northwest quarter, which is approximately 626 yds. by 207 yds. (3) the Southeast quarter, which is approximately 300 yds. by 186 yds. and (4) the Southwest quarter, which is 626 yds. by 186 yds. NOTE: These areas as mentioned above are only estimations.

COVER REQUIREMENTSAREA (1) - The Northeast quarter.

This area requires additional daily, intermediate and final cover. Sporadic portions within area one (1) have open dumped refuse visible that apparently has never been properly covered. Since this area is presently at its final grade relative to deposited refuse, two (2) feet of final cover is required at this area. The total area requiring final cover is therefore estimated at 558,900 sq. ft. The total amount of final cover required in this quarter is therefore estimated to be 41,400 sq. yds. of soil.

AREA (2) - The Northwest quarter.

This area requires additional daily, intermediate and final cover. Due to the inconsistency of applied cover in this quarter, certain areas require only one (1) additional foot of

soil while other areas require two (2) feet of additional soil. An area estimated to be 260 yds. by 45 yds. only requires one (1) foot of additional soil. This area is located West of the on-site trench (the only source of cover on the site) and South of 26th Street. The amount of cover required in this area is therefore estimated to be 3,900 cu. yds. of soil. Another area requiring only one (1) foot of cover in this quarter was estimated to be approximately 210 yds. by 74 yds. This area is located immediately South of the trench mentioned above. This area has apparently been covered in recent weeks due to the efforts of the new site supervisor. The amount of cover required in this area is therefore estimated to be 5,180 cu. yds. The remainder of this quarter section whose area is estimated to be 307,026 sq. ft. still requires two (2) feet of cover. This section therefore requires 22,742 cu. yds. of soil and the overall cover requirement in this quarter is estimated to be 31,822 cu. yds. of soil.

AREA (3) - The Southeast quarter.

This area requires one (1) foot to two (2) feet of additional soil, due to the degree of inconsistency in cover application in this area. In order to simplify matters, since the areas are so intermittent, an estimated 1.5 ft. of additional cover is being considered as being needed in this quarter section.

This area being 300 yds. by 186 yds. therefore requires 27,900 cu. yds. of additional soil.

AREA (4) - The Southwest

This area also requires daily, intermediate and final cover. Again, due to the inconsistency of applying cover in this area, an estimated 1.5 feet of additional cover is being considered as being needed in this quarter section.

This area being 626 yds by 186 yds, therefore, requires 59,261 cu. yds. of soil. The total amount of cover required over the entire site is therefore estimated to be 160,383 cu. yds.

COVER AVAILABILITY

The amount of cover on the site is basically restricted to a trenched area approximately 200 yds long and 45 yds. wide. This trench has already been excavated to about 10 or 15 feet below original ground level and is therefore restricted in life expectancy.

All other cover is presently hauled in and is not deposited at a steady day-to-day basis and is furthermore limited to availability in the vicinity of Chicago Hts.

Presently the site operator appears to be able to maintain daily covering operations with limited covering operations of other sections of the site. This problem is a result of the unavailability of needed cover material. Furthermore, during wet weather, cover is unavailable on site due to water accumulation in the trench

PERSONAL CONSIDERATIONS

Due to the vast area requiring cover and the unavailability of on-site cover, it is suggested that the site discontinue disposal operations and immediately commence with covering operations. The trench where cover material is presently being obtained from, could be used temporarily as a cover supply area. Once cover is no longer available from this trench, it could be filled with concrete, asphalt and bricks. The concrete presently stored on-site could be deposited in the trench and would almost fill the trench.

With regard to the haulers who utilize the site, arrangements could be made to divert these trucks to the Crete Township site which is also operated by Mr. Triem.

If the above mentioned suggestion is not acceptable to Mr. Triem, it is suggested that he apply for a variance to allow the site to continue operations while cover is applied over a long-term basis. Within 30 days of the date of the Compliance Conference, Mr. Triem should either close the site as per Rule 318 of our Rules and Regulations or apply for a variance which should include a closure plan as per Rule 318.

RVS/dek

cc: Northern Region File  
Springfield File  
Enforcement Services